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ADDITIVE GEARBOX WITH DIFFERENTIAL

[0001] BACKGROUND OF THE INVENTION

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[0002] Basically there are 3 main types of gearboxes: manually shifted gearbox with a maximum of about 20 speeds for trucks and 6 for cars; gearbox with planetary gear sets; and continuously variable transmission (CVT).

[0003] BRIEF SUMMARY OF THE DISCLOSURE

[0004] This invention can be catalogued as a MECHANICAL GEARBOX, but compared with the usual gearbox, this one has nearly the advantages of a CVT's (continuously variable ratio transmission) for its high number of obtainable speeds. The speed-range is very wide and the gap between the various speeds can be very small.

[0005] The gearbox of the present invention is extremely versatile and can be configured in different ways by small variants in the construction of the gearbox. It is possible to obtain, for example, all forward gears, one reverse gear and all remaining forward gears, more reverse gears, or as many reverse gears as forward gears with the same ratios.